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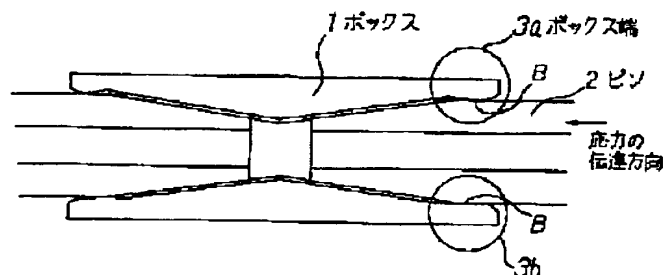
APPLICATION DATE : 26-08-93
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APPLICANT : NIPPON STEEL CORP;

INVENTOR : TSURU EIJI;

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TITLE : OIL PIPE COUPLING EXCELLENT IN
BENDING STRENGTH



ABSTRACT : PURPOSE: To reduce bending stress around cut-up port and improve strength under application of bending load by extending the box and of a coupling and causing its inner surface to come into contact with the outside circumference of the pin adjoining the cut-up port by a pin male screw.

CONSTITUTION: A screw coupling is composed of a box 1 having a female screw in its inner surface and a pin 2 having a male screw on its outer surface. It is composed to have a parallel sleeve machined portion B attached to box ends 3a, 3b and the sleeve inner surface come into contact with the pin outer surface adjoining the pin screw cut-up port. Normally, an oil pipe screw coupling of a pin-box type has its pin screw cut-up port become a transfer opening for tensile, bending and torsion stress from the pin to the box and become the weakest point where the maximum stress concentrates. For this reason, the bending stress transferred from the pipe is eased and reduced by the box parallel sleeve B before entering the weak point. Furthermore, excessive bending deformation starting from the screw cut-up port can be prevented by covering the dangerous port with the closely adhered parallel sleeve B.

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